Pharmacy Project part two:

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This report consist of three parts:

❖ Changes done to the gui

❖ What was fixed

❖ New additions done by me including :

- New message info or error boxes
- New buttons
- New labels

Changes done to the project GUI:

- Changed the colors of both bottuns and frames
- Changed the geometry of the window from(1350x800+0+0) to (1535+790+-8+0) so the window will be in the middle of the screen
- Enabled resizing the window
- Resizing all frames (top frame,left top frame , right top frame and both button frames,down frame and scrollers frames)
- Resizing all the buttons

What was fixed:

❖ <u>Buttons in right top frame :</u>

- ▪ Add : when the user uses this button it used to write (none) in the med name field this was fixed
- ▪ Update buttons is working now by rewriting or writing its function
- ▪ What was added to UPDATE code:

#to update refrence number:

```
new_cursor.execute("Update pharma set REF_NO=? where MED_NAME=?", (
                                                            self.
ref_variable.get(),
                                                            self.
addmed_variable.get()
                                                            ))
```

 #to refresh the window so the changes appear immediately :

```
new_cursor.execute("Select Ref_no from pharma")
        combo1 = new_cursor.fetchall()
        self.ref_combo["values"] = ('Select',*combo1)

        new_cursor.execute("Select Med_name from pharma")
        combo2 = new_cursor.fetchall()
        self.medname_combo["values"] = ('Select',*combo2)
```

❖ Buttons in down button frame:

- Update,delete,search,show all and reset buttons were fixed by rewriting functions,adding command parameters or both

- Additions to update code: fixed the table name from MEDNAME to MED_NAME

```
new_cursor.execute("Update Information set
COMPANY_NAME=?,TYPE_OF_MED=?,MED_NAME=?,LOT_NO=?,ISSUE_DT=?
,EXP_DT=?,USES=?,SIDE_EFFECT=?,PRECAUTION=?,DOSAGE=?,PRICE=
?,QUANTITY=?,BAN=? where REF_NO=?")
```

- Clear code after rewriting : because the older one supposed to delete the whole record

```
conn=sqlite3.connect(database=r'.\pharmacy.db')
        new_cursor=conn.cursor()
        sql="delete from Information where REF_NO=?"
        val = (self.refno_var.get(),)
        new_cursor.execute(sql,val)
        conn.commit()
        self.fetch_new()
        conn.close()
        messagebox.showinfo('Delete',"Information deleted
succesfully")
```

- Writing a function for reset button :because it didn't exist

```
def reset(self):
        self.companyname_var.set("")
        self.lotno_var.set("")
        self.issuedt_var.set("")
```

```
▪            self.expdt_var.set("")
▪            self.uses_var.set("")
▪            self.sideeffect_var.set("")
▪            self.warning_var.set("")
▪            self.dosage_var.set("")
▪            self.price_var.set("")
▪            self.quantity_var.set("")
▪            self.banned_var.set("")
▪            messagebox.showinfo('Reset',"Information Reseted
    succesfully")
```

- Changes made for search button:

```
▪   selected = self.search_by.get()
```

❖ Immediate refresh was done so any changes in the database will automatically be displayed on the screen without closing the window to see the applied changes by using fetch_new() function in every other function for all buttons

Additions done in the project:

❖ Mode label and its Combo box:
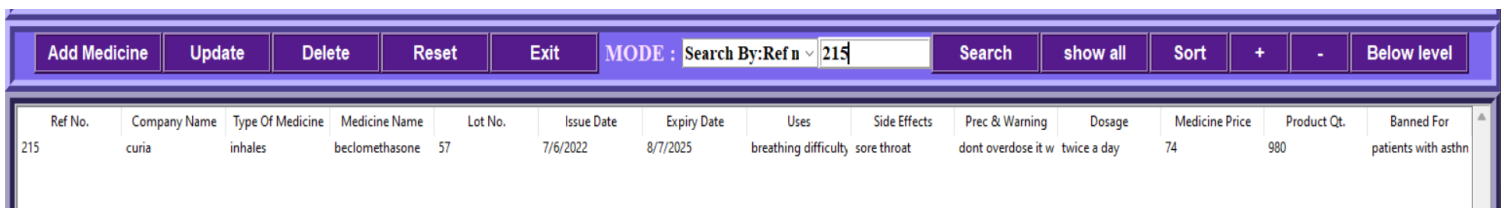
- ▪ Changed the name of (search by) label to (Mode) label
- ▪ Combox now have other contents and values for different buttons commands
- ▪ Contents were (select options,Medname) now its (select a mode,search by:Medname,search By:lot,search by:ref no,sort by:ascending,sort by:descending)
- ▪ Added a varstring called (search.by) for mode combo box
- ▪ Added a mode entry box so we can write in it while using the second,third and fourth mode for searching in the database and added its Varstring which is (search.txt)

MODE : Select a Mode

Select a Mode
Search By:Ref no
Search By:MedName
Search By:Lot
Sort By:Ascending
Sort By:Descending

sue Date	Exp	Side Effects
2022	15/11/	ction	bad taste in mo
022	8/7/20	ficulty	sore throat
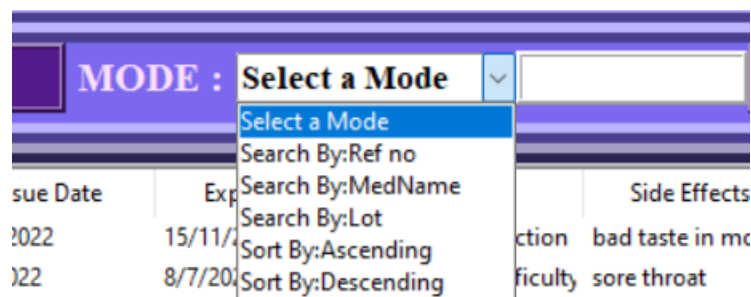
❖Search button:

User now can search for data by different modes for example:

- When using the mode (Search By:Ref no) and inputing a refrence number in the mode then clicking the search button medicines with that reference number will be the only ones in the table

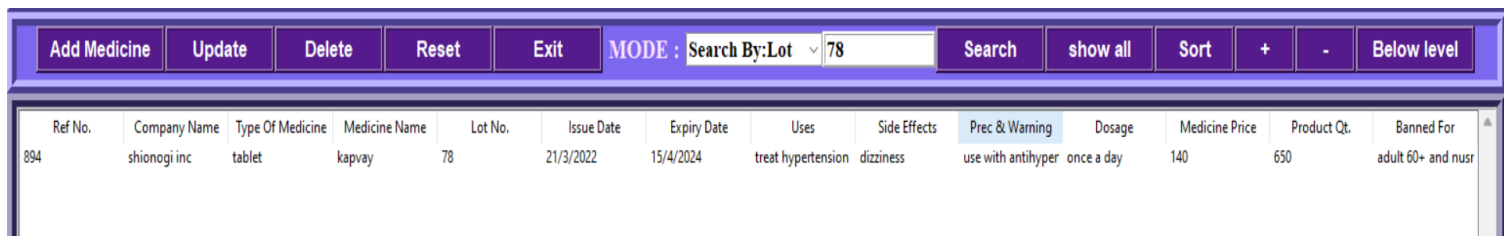| Ref No.	Company Name	Type Of Medicine	Medicine Name	Lot No.	Issue Date	Expiry Date	Uses	Side Effects	Prec & Warning	Dosage	Medicine Price	Product Qt.	Banned For
215	curia	inhales	beclomethasone	57	7/6/2022	8/7/2025	breathing difficulty	sore throat	dont overdose it w	twice a day	74	980	patients with asthn

- When using the mood (Search By:Lot) and inputing a Lot number in the mode then clicking the search button medicines with that Lot number will be the only ones in the table

Ref No.	Company Name	Type Of Medicine	Medicine Name	Lot No.	Issue Date	Expiry Date	Uses	Side Effects	Prec & Warning	Dosage	Medicine Price	Product Qt.	Banned For
894	shionogi inc	tablet	kapvay	78	21/3/2022	15/4/2024	treat hypertension	dizziness	use with antihyper	once a day	140	650	adult 60+ and nusr

- When not using a search option (sorting by:ascending or sorting by:descending) a message error box appears will appear and say "you have to choose a search option:"
Note:photo in the next page
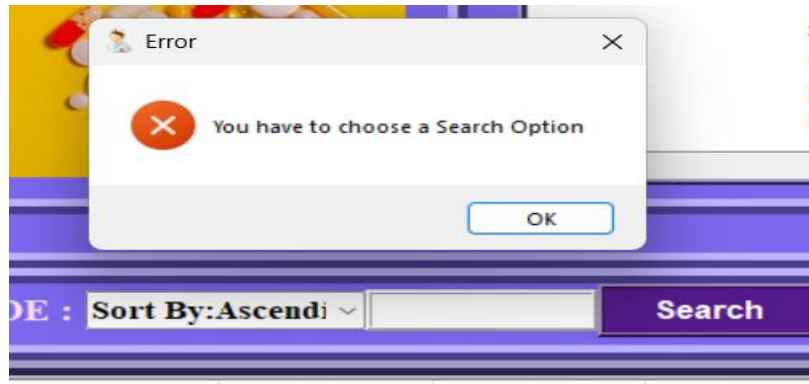
❖Sort button in down frame:

- When choosing modes (sort by:ascending or sort by:descending) and clicking on the sort button,all data will be sorted in ascending or descending order according to the medicine name.

Ascending order :

| Medicine Name	Lot No.	Issue Date	Expiry Date	Uses	Side Effects	Prec & Warning	Dosage	Medicine Pr
bacitracin	84	2/7/2019	22/2/2023	bacterial infection	rash & hives	too much causes c	three times a day	120
beclomethasone	57	7/6/2022	8/7/2025	breathing difficulty	sore throat	dont overdose it w	twice a day	74
bimatoprost	61	12/10/2022	8/6/2025	treat high pressure	change in eye colo	redness & itching	once a day	30
ciprocin	47	13/7/2022	15/11/2025	bacterial infection	bad taste in mouth	develop tendinitis	every 12 hours	22
corona vaccine	45	2/8/2022	22/10/2024	protection from co	headache	too much causes l	once every 6 mont	430
insulin	41	7/11/2022	20/8/2024	type 1 diabetes	redness & swelling	shift potassium lev	once a day	170
kapvay	78	21/3/2022	15/4/2024	treat hypertension	dizziness	use with antihyper	once a day	140
metformin	23	29/2/2023	13/7/2025	type 2 diabetes	stomach ache	may cause lactic a	once a day	214
panadol	52	18/11/2022	8/11/2025	headache	wheezing & skin ra	too much may cau	max four times a d	30

Descending order:

Medicine Name	Lot No.	Issue Date	Expiry Date	Uses	Side Effects	Prec & Warning	Dosage	Medicine Pr
zaleplon	91	23/1/2022	14/12/2024	treat sleeping diffic	drowsiness & loss	life threating sleep	once a day	527
panadol	52	18/11/2022	8/11/2025	headache	wheezing & skin ra	too much may cau	max four times a d	30
metformin	23	29/2/2023	13/7/2025	type 2 diabetes	stomach ache	may cause lactic a	once a day	214
kapvay	78	21/3/2022	15/4/2024	treat hypertension	dizziness	use with antihyper	once a day	140
insulin	41	7/11/2022	20/8/2024	type 1 diabetes	redness & swelling	shift potassium lev	once a day	170
corona vaccine	45	2/8/2022	22/10/2024	protection from co	headache	too much causes l	once every 6 mont	430
ciprocin	47	13/7/2022	15/11/2025	bacterial infection	bad taste in mouth	develop tendinitis	every 12 hours	22
bimatoprost	61	12/10/2022	8/6/2025	treat high pressure	change in eye colo	redness & itching	once a day	30
beclomethasone	57	7/6/2022	8/7/2025	breathing difficulty	sore throat	dont overdose it w	twice a day	74

- When choosing a mode that is not for sort button a message error box will appear with a message which is "you have to choose a sorting option
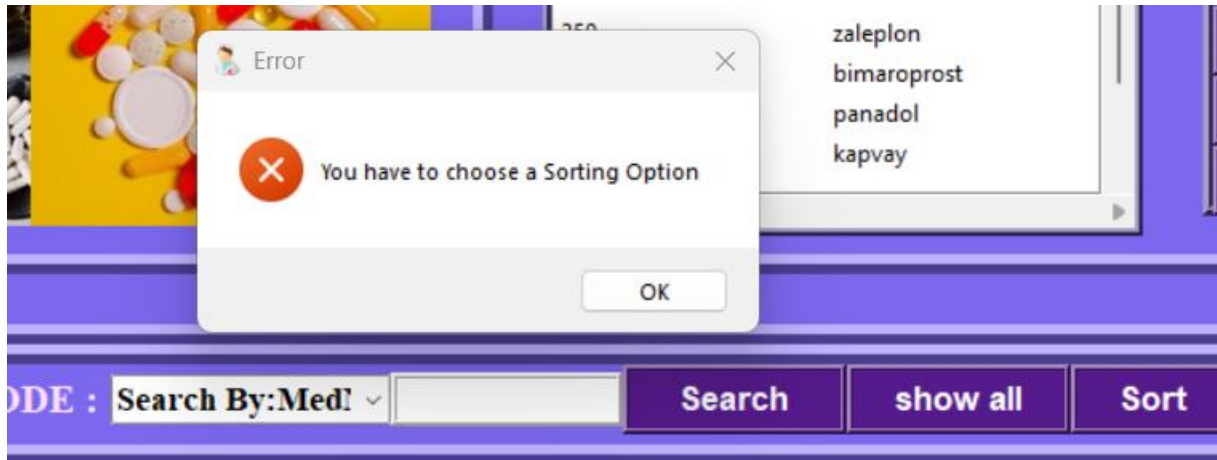
❖ When choosing "select a mode" option for both sort and search buttons a message error box will appear having the message "you have to choose a mode option"
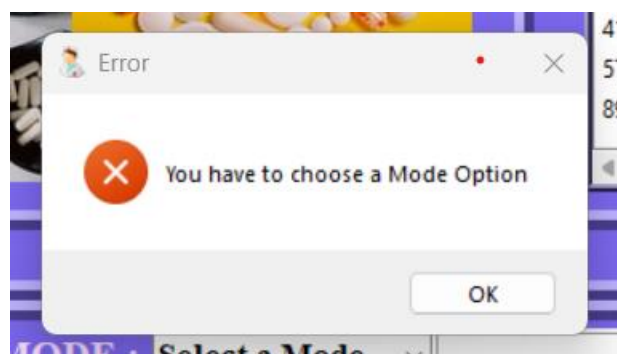
❖ '+' button:

- By writing a number in the entry box ,selecting a record from the table and clicking on '+' button will increase the quantity by the input number (ex: input number was 4 and the quantity was 216 it will be 220) this button is used in case a costumer returned what he bought and a message info box will appear saying "successfully added"

Then :

		Search	show all	Sort	+	-
∨	4					

es	Side Effects	Prec & Warning	Dosage	Medicine Price	Product Qt.
infection	bad taste in mouth	develop tendinitis	every 12 hours	22	216
difficulty	sore throat	dont overdose it w	twice a day	74	980
ibetes	stomach ache	may cause lactic a	once a day	214	350

Now :

		Search	show all	Sort	+	-
✓	4					

;	Side Effects	Prec & Warnin	**Success** ✕	Price	Product Qt.
fection	bad taste in mouth	develop tendinit			220
lifficulty	sore throat	dont overdose it			980
etes	stomach ache	may cause lactic	ⓘ Successfully added		350
ng diffic	drowsiness & loss	life threating sle			150
ressure	change in eye colo	redness & itchin			325
	wheezing & skin ra	too much may c	OK		724
:ension	dizziness	use with antihyper	once a day	140	650
from co	headache	too much causes l	once every 6 mont	430	204

❖'-' button:

- By writing a number in the entry box ,selecting a record from the table and clicking on '-' button will increase the quantity by the input number (ex: input number was 2 and the quantity was 980 it will be 978) this button is used in case a costumer bought a medicine and a message info box will appear saying "successfully removed"

Then :

es	Side Effects	Prec & Warning	Dosage	Medicine Price	Product Qt.
nfection	bad taste in mouth	develop tendinitis	every 12 hours	22	216
difficulty	sore throat	dont overdose it w	twice a day	74	980

Now :

	Side Effects	Prec & Warning	Dosage	Medicine Price	Product Qt.
ction	bad taste in mouth	develop tendinitis			216
ficulty	sore throat	dont overdose it w			978
es	stomach ache	may cause lactic a			350
g diffic	drowsiness & loss	life threating sleep			150
essure	change in eye colo	redness & itching			325
	wheezing & skin ra	too much may ca			724
nsion	dizziness	use with antihyper			650
om co	headache	too much causes			204
ction	rash & hives	too much causes c	three times a day	120	800

Success message box: "Successfully Removed" OK

❖ **When leaving the entry box empty while using both '+' and '-' buttons will sent an message error box saying "you have to write a number in the entry box"**

❖ <u>**Bellow level button**</u>

- when clicking on this button it will show us the medicines that its quanitity are under 300 so the user have a time to order more before it will be totally finished

	Side Effects	Prec & Warning	Dosage	Medicine Price	Product Qt.	Banned For
fection	bad taste in mouth	develop tendinitis	every 12 hours	22	216	kids under 10
ng diffic	drowsiness & loss	life threating sleep	once a day	527	150	cronic use for elder
from co	headache	too much causes l	once every 6 mont	430	204	infants

❖ <u>**Sorting button in right top frame:**</u>

- When clicking on the button it will sort the data in the right top frame trable in an ascending order
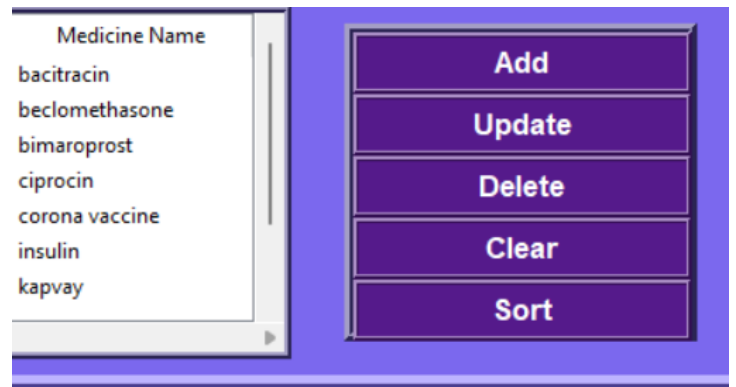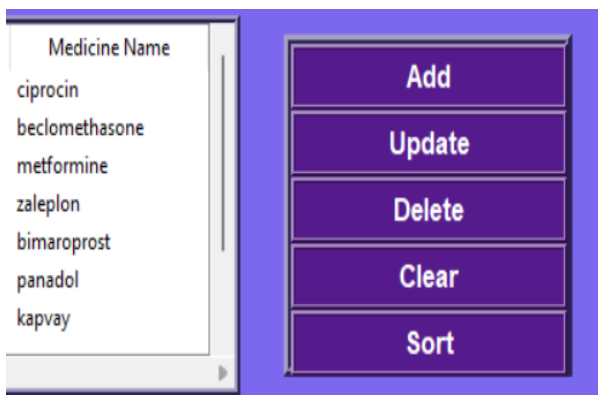
Then: now:

❖Update button in right top frame:

- It has an extra addition and its we can change both refrence number and medicine name (it was medicine name only)

Then :

Now:

❖ <u>new labels additions:</u>

- ▪ a new label called "banned for:" was added with its entry box
- ▪ a column in information table was added too called "BAN" was made for this new label and it was displayed as "Banned

for" in the down frame table by writing this code and it was given a width of 100

the code :

#for label and entry box

```
banned_label = Label(left_smallframe, text=" Banned For   :", padx=2, pady=4,
font=(
            "times new roman", 13, "bold"), bg="medium slate blue")
        banned_label.grid(row=3, column=2,sticky=W)
        self.banned_entry = Entry(left_smallframe, textvariable=self.banned_var,
         width=24, font=(
            "times new roman", 13, "bold"), fg="black", bg="white")
        self.banned_entry.grid(row=3, column=3)
```

#for making a column in the down frame table

```
self.info_table = ttk.Treeview(scroll_frame, column=("ref no", "comp name",
"type", "medi name", "lot no", "issue", "exp",
                                    "uses", "side effect", "warning",
"dosage", "price", "product","ban"), xscrollcommand=scroll_x.set,
yscrollcommand=scroll_y.set)

self.info_table.heading("ban", text="Banned For")
```

#making the width = 100

```
self.info_table.column("ban", width=100)
```